

**Amendments to the Specification:**

Please further amend the amended last paragraph of page 3 as follows:

An image  $B_{i,r}$  that succeeds the image  $B_{i-1,r}$  and bears the sequence number  $I$  is then determined as follows. This operation is based on an image  $B_{i,o}$  that succeeds a previous image  $B_{i-1,o}$ , after which a reference region  $ROI_i$  is defined in said image  $B_{i,o}$ , which reference region is bounded in the same way as the reference image  $ROI_{i-1}$  in the image  $B_{i-1,r}$ . The two reference regions  $ROI_{i-1}$  and  $ROI_i$  are subsequently analyzed in a calculation processor 1 in order to determine the degree of rotation and translation of the  $ROI_i$  relative to  $ROI_{i-1}$  that is necessary so as to minimize the differences between  $ROI_{i-1}$  and  $ROI_i$  (due to spurious organ motion). To this end, the calculation processor 1 generates and applies a control signal 2 to a transformation processor 3 which performs a rotation and/or translation on the entire image  $B_{i,o}$  in order to obtain the image  $B_{i,r}$  that can subsequently be presented (based on control signal 2). That is,  $B_{i,o}$ , coming sequentially in time after the image  $B_{i-1,r}$ , is displayed on a display device 10 for visual inspection (Figs. 2-4). Fig. 2 shows display device 10 depicting  $B_{i-1,o}$  where  $i=1$ , or  $B_{0,o}$ . The elements shown in Fig. 2 include a region of interest (ROI), of the first in a series of images, where ROI shows a slice through the myocardium 20 of the right ventricle 30 and left ventricle 40. Perfusion is observed over the time sequence of the image, fixed in space (by the inventive transformational processes) within the left ventricular blood pool 50.

Please delete the last paragraph of page 3 in its entirety as follows:

Fig. 4 shows a data processing system 100 including a data processor 110 for carrying out the process of the invention. Data processor 110 includes a part 120 wherein a computer-readable medium including a set of instructions for implementing the inventive process using a general purpose computer can be read, the instructions downloaded and the process implemented by data processor 110. The perfusion measurement images are displayed on a display device 10.

After the last line of page 3, please insert the following paragraph:

The invention has been described with reference to the preferred embodiments. Modifications and alterations may occur to others upon reading and understanding the preceding detailed description. It is intended that the invention be constructed as including all such modifications and alterations insofar as they come within the scope of the appended claims or the equivalents thereof.